K 7

```
RRRRRRRRRRRR     UUU         UUU  NNN         NNN     OOOOOOOOO     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN         NNN     OOOOOOOOO     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN         NNN     OOOOOOOOO     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRR         RRR  UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNNNNN      NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNNNNN      NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNNNNN      NNN  OOO         OOO  FFF              FFF
RRRRRRRRRRRR     UUU         UUU  NNN   NNN   NNN  OOO         OOO  FFFFFFFFFFFF     FFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN   NNN   NNN  OOO         OOO  FFFFFFFFFFFF     FFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN   NNN   NNN  OOO         OOO  FFFFFFFFFFFF     FFFFFFFFFFFF
RRR   RRR        UUU         UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR   RRR        UUU         UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR   RRR        UUU         UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUUUUUUUUUUUUUU  NNN         NNN     OOOOOOOOO     FFF              FFF
RRR         RRR  UUUUUUUUUUUUUUU  NNN         NNN     OOOOOOOOO     FFF              FFF
RRR         RRR  UUUUUUUUUUUUUUU  NNN         NNN     OOOOOOOOO     FFF              FFF
```

```
_$2

Sym
---
NDX
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PAD
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PAG
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PER
PUT
RCO
RIN

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RTY
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                                                                 N  9
**FILE**ID**HEADER




          HH      HH  EEEEEEEEEE    AAAAAA    DDDDDDDD    EEEEEEEEEE  RRRRRRRR
          HH      HH  EEEEEEEEEE    AAAAAA    DDDDDDDD    EEEEEEEEEE  RRRRRRRR
          HH      HH  EE          AA      AA  DD      DD  EE          RR      RR
          HH      HH  EE          AA      AA  DD      DD  EE          RR      RR
          HH      HH  EE          AA      AA  DD      DD  EE          RR      RR
          HHHHHHHHHH  EEEEEEEE    AA      AA  DD      DD  EEEEEEEE    RRRRRRRR
          HHHHHHHHHH  EEEEEEEE    AA      AA  DD      DD  EEEEEEEE    RRRRRRRR
          HH      HH  EE          AAAAAAAAAA  DD      DD  EE          RR  RR
          HH      HH  EE          AAAAAAAAAA  DD      DD  EE          RR  RR
          HH      HH  EE          AA      AA  DD      DD  EE          RR    RR          ....
          HH      HH  EE          AA      AA  DD      DD  EE          RR    RR          ....
          HH      HH  EEEEEEEEEE  AA      AA  DDDDDDDD    EEEEEEEEEE  RR      RR        ....
          HH      HH  EEEEEEEEEE  AA      AA  DDDDDDDD    EEEEEEEEEE  RR      RR        ....

          LL            IIIIII      SSSSSSSS
          LL            IIIIII      SSSSSSSS
          LL              II      SS
          LL              II      SS
          LL              II      SS
          LL              II      SS
          LL              II        SSSSSS
          LL              II        SSSSSS
          LL              II              SS
          LL              II              SS
          LL              II              SS
          LL              II              SS
          LLLLLLLLLL    IIIIII    SSSSSSSS
          LLLLLLLLLL    IIIIII    SSSSSSSS
```

HEA
VO4

```
  0001  0 %TITLE 'HEADER -- handle headers (titles) for examples, figures, tables.'
  0002  0 MODULE header ( IDENT = 'V04-000'
P 0003  0                 %BLISS32 [, ADDRESSING_MODE (EXTERNAL    = LONG_RELATIVE,
  0004  0                                              NONEXTERNAL = LONG_RELATIVE)]
  0005  0                 ) =
  0006  1 BEGIN
  0007  1 !
  0008  1 !****************************************************************************
  0009  1 !*                                                                          *
  0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
  0011  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                  *
  0012  1 !*  ALL RIGHTS RESERVED.                                                    *
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  0017  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
  0018  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
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  0020  1 !*                                                                          *
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  0022  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
  0023  1 !*  CORPORATION.                                                            *
  0024  1 !*                                                                          *
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  0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
  0027  1 !*                                                                          *
  0028  1 !*                                                                          *
  0029  1 !****************************************************************************
  0030  1 !
  0031  1
  0032  1 !++
  0033  1 ! FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
  0034  1 !
  0035  1 ! ABSTRACT:
  0036  1 !
  0037  1 !      Handles headers (titles) for examples, figures, tables.
  0038  1 !
  0039  1 ! ENVIRONMENT:  Transportable
  0040  1 !
  0041  1 ! AUTHOR:       Keith A. Dawson          CREATION DATE:  18-April-1982
  0042  1
```

```
%SBTTL 'Revision History'
! MODIFIED BY:
!
!       016     KFA00016        Ken Alden       04-Aug-1983
!               Added logic to prevent user from enabling a chapter
!                or appendix if already in the type of page numbering
!                scheme.
!               Added handling for disable appendix.
!
!       015     KFA00015        Ken Alden       04-Aug-1983
!               Because I replaced this module in CMS, this minor
!                change makes it a new ident.  Basically all I did
!                was make the enable feature bump the page counters
!                as actually doing a chapter/appendix would have done.
!
!       014     KFA00014        Ken Alden       03-Aug-1983
!               Added the .DIS/ENABLE CHAPTER functionality.
!
!       013     RER00013        Ron Randall     7-Jul-1983
!               Fixed footnote outputting bug.
!
!       012     RER00012        Ron Randall     14-Jun-1983
!               Added logic to prevent HEADER from initiating a chapter
!               or appendix until all pending footnotes are output.
!
!       011     KFA00011        Ken Alden       9-Jun-1983
!               Fixed .NO CHAPTER bug by adding a RETURN statement.
!
!       010     KAD00010        Keith Dawson    18-May-1983
!               Added support for FLIP Phase 1. Existing FLIP books were
!                 built using a DSRFLIP and BIND that have a 4-bit
!                 ($TINY_INTEGER) field for TOCTXT_CODE. This field is too
!                 small for new DSRPLUS table-of-contents data types. FLIP
!                 Phase 2 support will have to use new, not-yet-defined fields
!                 for these data types.
!
!       009     KFA00009        Ken Alden       3-May-1983
!               Added the external calls for pagen and npagen.
!
!       008     REM00008        Ray Marshall    April-1983
!               Made many changes to allow chapters and appendices to be
!                 controlled from the ECC data structures for DSR as they have
!                 been for some time now for DSRPLUS.  This was done to decouple
!                 these two forms of output from each other.
!
!       007     KFA00007        Ken Alden       28-Mar-1983
!               Testpage amounts have now been refigured and when
!                 the user says "TP = 0" that is what they will get!
!
!       006     RER00006        Ron Randall     07-Mar-1983
!               Global edit of all modules. Updated module names, idents,
!               copyright dates. Changed require files to BLISS library.
!--

```

```
;    99            0097  1 %SBTTL 'Module Level Declarations'
;   100            0098  1 !
;   101            0099  1 ! TABLE OF CONTENTS:
;   102            0100  1 !
;   103            0101  1 FORWARD ROUTINE
;   104            0102  1     header      : NOVALUE,       !Generates calls to OUTHDR for headers
;   105            0103  1                                  ! (counters/captions) of header levels,
;   106            0104  1                                  ! examples, figures, and tables.
;   107            0105  1     set_ecc     : NOVALUE;       !Sets values of some (common) OUTHDR formals.
;   108            0106  1 !
;   109            0107  1 ! INCLUDE FILES:
;   110            0108  1 !
;   111            0109  1 LIBRARY 'NXPORT:XPORT';                    ! XPORT Library
;   112            0110  1 REQUIRE 'REQ:RNODEF';                      ! RUNOFF variant definitions
;   113            0241  1
;   114          U 0242  1 %IF DSRPLUS %THEN
;   115          U 0243  1 LIBRARY 'REQ:DPLLIB';                      ! DSRPLUS BLISS Library
;   116            0244  1 %ELSE
;   117            0245  1 LIBRARY 'REQ:DSRLIB';                      ! DSR BLISS Library
;   118            0246  1 %FI
;   119            0247  1
;   120            0248  1 !
;   121            0249  1 ! OWN STORAGE:
;   122            0250  1 !
;   123            0251  1 OWN
;   124            0252  1         lines_before,           lines_after,            test_page_amount,
;   125            0253  1         counter_major_type,     counter_minor_type,
;   126            0254  1         counter_value,          counter_display_code,   counter_spaces_after,
;   127            0255  1         counter_pre_string_length,      counter_pre_string_ptr,
;   128            0256  1         counter_post_string_length,     counter_post_string_ptr,
;   129            0257  1         caption_major_type,     caption_minor_type,     caption_case,
;   130            0258  1         caption_is_centered,    caption_is_flush_right, caption_is_run_in,
;   131            0259  1         caption_is_bold,        caption_is_underlined,  put_into_mem_file,
;   132            0260  1         autosubtitle,           brn_open,               break_before_caption,
;   133            0261  1         lines_between,          new_page,               startodd,
;   134            0262  1         tocpage;
;   135            0263  1 !
;   136            0264  1 ! EXTERNAL REFERENCES:
;   137            0265  1 !
;   138            0266  1 EXTERNAL LITERAL
;   139            0267  1     rnfinm;
;   140            0268  1
;   141            0269  1 EXTERNAL
;   142            0270  1     ecc         : $ecc_blockvector,
;   143            0271  1     fnct        : fnct_definition,
;   144            0272  1     gca         : gca_definition,
;   145            0273  1     hct         : hct_definition,
;   146            0274  1     hlc         : hlc_definition,
;   147            0275  1     hllist      : counted_list,
;   148            0276  1     ira         : fixed_string,
;   149            0277  1     numprm      : numprm_define,
;   150            0278  1
;   151          U 0279  1 %IF dsrplus %THEN
;   152          U 0280  1     npagen      : page_definition,
;   153          U 0281  1     pagen       : page_definition,
;   154            0282  1 %FI
;   155            0283  1
;  156          0284  1       pdt           : ref pdt_definition,
;  157          0285  1       sca           : sca_definition;
;  158          0286  1
;  159          0287  1 EXTERNAL ROUTINE
;  160          0288  1       erma,
;  161          0289  1       outcha,
;  162          0290  1       outhdr,
;  163          0291  1       botpag,
;  164          0292  1       foobot,
;  165          0293  1       toppag,
;  166          0294  1
;  167        U 0295  1 %IF DSRPLUS %THEN
;  168        U 0296  1       puttpg,
;  169          0297  1 %FI
;  170          0298  1       skpsep;
;  171          0299  1
```

```
1 %SBTTL 'HEADER -- set up call to OUTHDR to generate (number and) header'
1 GLOBAL ROUTINE header (handler) : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       HEADER sets up the formal arguments to call OUTHDR and generate a
1 !       header (in the output and/or binary file) for .HEADER <any> commands,
1 !       where <any> is LEVEL, EXAMPLE, FIGURE, or TABLE.
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       handler - Defines which sort of header is to be generated.
1 !
1 ! IMPLICIT INPUTS:      None
1 !
1 ! IMPLICIT OUTPUTS:     None
1 !
1 ! ROUTINE VALUE:
1 ! COMPLETION CODES:     None
1 !
1 ! SIDE EFFECTS:         None
1 !--
1
2     BEGIN
2     !
2     ! Preset those OUTHDR formals that are common,
2     ! or that are not yet implemented.
2     !
2     counter_major_type = maj_runoff;
2     caption_major_type = maj_runoff;
2     put_into_mem_file  = true;           ! NYI!!**DEBUG**!!
2     brn_open = .gca_btc;
2
2     SELECT .handler OF
2         SET
2
2         [h_header_level, h_set_level] :
2             !
2             ! Process the number given as a parameter on the .HL or
2             !
3             BEGIN
3             !
3             ! .SET LEVEL command
3             !
3             IF  .num_sign NEQ 0
3             THEN
3                 !
3                 ! Process a relative header level.
3                 !
3                 num_value = .hllist [cl_index] + .num_value
3             ELSE
3
3                 IF  .num_length EQL 0
3                 THEN
3                     !
3                     ! Continue on at same level.
```

```
;  230         0357  3                   !
;  231         0358  3                   num_value = .hllist [cl_index];
;  232         0359  3
;  233         0360  3           !
;  234         0361  3           ! Validate resultant header level.
;  235         0362  3           !
;  236         0363  3           IF  (.num_value LEQ 0) OR
;  237         0364  4               (.num_value GTR .hllist [cl_max_index])
;  238         0365  3           THEN
;  239         0366  3               !
;  240         0367  3               ! Illegal header number.
;  241         0368  3               !
;  242         0369  4               BEGIN
;  243         0370  4               erma (rnfinm, false);
;  244         0371  4               !
;  245         0372  4               ! Stay at current level.
;  246         0373  4               !
;  247         0374  4               num_value = .hllist [cl_index];
;  248         0375  3               END;
;  249         0376  3
;  250         0377  2           END;
;  251         0378  2
;  252         0379  2       [h_header_level] :
;  253         0380  2           !
;  254         0381  2           ! Bump counter at specified level.
;  255         0382  2           !
;  256         0383  3           BEGIN
;  257         0384  3           hllist [.num_value] = .hllist [.num_value] + 1;
;  258         0385  3
;  259         0386  3           !
;  260         0387  3           ! Zero all higher numbered counters.
;  261         0388  3           !
;  262         0389  3           INCR I FROM (.num_value + 1) TO .hllist [cl_max_index] DO
;  263         0390  3               hllist [.I] = 0;
;  264         0391  3
;  265         0392  2           END;
;  266         0393  2
;  267         0394  2       [h_header_level, h_set_level] :
;  268         0395  2           !
;  269         0396  2           ! Set desired level.
;  270         0397  2           !
;  271         0398  2           hllist [cl_index] = .num_value;
;  272         0399  2
;  273         0400  2       [h_set_level] : RETURN;
;  274         0401  2
;  275         0402  2       [h_header_level] :
;  276         0403  3           BEGIN
;  277         0404  3           BIND
;  278         0405  3               style_block = ecc [hcoll_offset + .hllist [cl_index], 0,0,0,0]
;  279         0406  3                                   : $ecc_block;
;  280         0407  3
;  281         0408  3           counter_minor_type = min_hl_inf;
;  282         0409  3           caption_minor_type =
;  283         0410  4               (IF  .style_block [ecc$v_unnumbered]
;  284         0411  4                THEN
;  285         0412  4                    min_hl_txt_u
;  286         0413  4                ELSE
;  287        0414  3                    min_hl_txt);
;  288        0415  3
;  289        0416  3               set_ecc (.handler, style_block);
;  290        0417  2               END;
;  291        0418  2
;  292      U 0419  2  %IF DSRPLUS %THEN
;  293      U 0420  2            [h_header_exampl] :
;  294      U 0421  2               BEGIN
;  295      U 0422  2               BIND
;  296      U 0423  2                   style_block = ecc [examp_offset, 0,0,0,0] : $ecc_block;
;  297      U 0424  2
;  298      U 0425  2               counter_minor_type = min_examp_inf;
;  299      U 0426  2               caption_minor_type =
;  300      U 0427  2                   (IF   .style_block [ecc$v_unnumbered]
;  301      U 0428  2                    THEN
;  302      U 0429  2                        min_examp_txt_u
;  303      U 0430  2                    ELSE
;  304      U 0431  2                        min_examp_txt);
;  305      U 0432  2
;  306      U 0433  2               set_ecc (.handler, style_block);
;  307      U 0434  2               END;
;  308      U 0435  2
;  309      U 0436  2            [h_header_figure] :
;  310      U 0437  2               BEGIN
;  311      U 0438  2               BIND
;  312      U 0439  2                   style_block = ecc [figur_offset, 0,0,0,0] : $ecc_block;
;  313      U 0440  2
;  314      U 0441  2               counter_minor_type = min_figur_inf;
;  315      U 0442  2               caption_minor_type =
;  316      U 0443  2                   (IF   .style_block [ecc$v_unnumbered]
;  317      U 0444  2                    THEN
;  318      U 0445  2                        min_figur_txt_u
;  319      U 0446  2                    ELSE
;  320      U 0447  2                        min_figur_txt);
;  321      U 0448  2
;  322      U 0449  2               set_ecc (.handler, style_block);
;  323      U 0450  2               END;
;  324      U 0451  2
;  325      U 0452  2            [h_header_table] :
;  326      U 0453  2               BEGIN
;  327      U 0454  2               BIND
;  328      U 0455  2                   style_block = ecc [table_offset, 0,0,0,0] : $ecc_block;
;  329      U 0456  2
;  330      U 0457  2               counter_minor_type = min_table_inf;
;  331      U 0458  2               caption_minor_type =
;  332      U 0459  2                   (IF   .style_block [ecc$v_unnumbered]
;  333      U 0460  2                    THEN
;  334      U 0461  2                        min_table_txt_u
;  335      U 0462  2                    ELSE
;  336      U 0463  2                        min_table_txt);
;  337      U 0464  2
;  338      U 0465  2               set_ecc (.handler, style_block);
;  339      U 0466  2               END;
;  340        0467  2  %FI
;  341        0468  2
;  342        0469  2            [h_chapter] :
;  343        0470  3               BEGIN
;   344       0471  3             BIND
;   345       0472  3                 style_block = ecc [chap_offset, 0,0,0,0] : $ecc_block;
;   346       0473  3
;   347       0474  3             counter_minor_type = min_chapt_inf;
;   348       0475  3             caption_minor_type =
;   349       0476  4                 (IF  .style_block [ecc$v_unnumbered]
;   350       0477  4                  THEN
;   351       0478  4                     min_chapt_txt_u
;   352       0479  4                  ELSE
;   353       0480  3                     min_chapt_txt);
;   354       0481  3
;   355       0482  3 ! ** This code is needed for FLIP Phase 1 support.
;   356     U 0483  3 %IF FLIP %THEN
;   357     U 0484  3             IF  (.gca_op_dev EQL op_dev_flip)
;   358     U 0485  3             THEN
;   359     U 0486  3                 caption_minor_type = min_chapt;
;   360       0487  3 %FI
;   361       0488  3 ! **
;   362       0489  3
;   363       0490  3             set_ecc (.handler, style_block);
;   364       0491  2             END;
;   365       0492  2
;   366     U 0493  2 %IF DSRPLUS %THEN
;   367     U 0494  2         [h_no_chapter, h_disable_chapt, h_disable_appen] :
;   368     U 0495  2             BEGIN
;   369     U 0496  2             gca_chapt          = false;   ! Turn off chapter oriented-ness.
;   370     U 0497  2             npagen [sct_typ] = 0;         ! Normal page numbers
;   371     U 0498  2             pagen  [sct_typ] = 0;         ! Normal page numbers
;   372     U 0499  2
;   373     U 0500  2             IF .gca_btc
;   374     U 0501  2             THEN
;   375     U 0502  2
;   376     U 0503  2 %IF FLIP %THEN
;   377     U 0504  2                 puttpg (pagen, flip$k_tocpag);
;   378     U 0505  2 %ELSE
;   379     U 0506  2                 puttpg (pagen, -1);
;   380     U 0507  2 %FI
;   381     U 0508  2
;   382     U 0509  2             RETURN;
;   383     U 0510  2             END;
;   384     U 0511  2
;   385     U 0512  2         [h_enable_append] :
;   386     U 0513  2             BEGIN
;   387     U 0514  2             IF .pagen [sct_typ] EQL sct_append ! Already in an Appendix
;   388     U 0515  2             THEN
;   389     U 0516  2                 RETURN;
;   390     U 0517  2             gca_chapt          = true;    ! Turn off chapter oriented-ness.
;   391     U 0518  2             npagen [sct_typ] = sct_append;  ! Normal page numbers
;   392     U 0519  2             pagen  [sct_typ] = sct_append;      ! Normal page numbers
;   393     U 0520  2             pagen  [sct_number] = .ecc [append_offset,ecc$h_counter] + 1;
;   394     U 0521  2             npagen  [sct_number] = .ecc [append_offset,ecc$h_counter] + 1;
;   395     U 0522  2             IF .gca_btc
;   396     U 0523  2             THEN
;   397     U 0524  2
;   398     U 0525  2 %IF FLIP %THEN
;   399     U 0526  2                 puttpg (pagen, flip$k_tocpag);
;   400     U 0527  2 %ELSE
;  401        U 0528  2                 puttpg (pagen, -1);
;  402        U 0529  2 %FI
;  403        U 0530  2
;  404        U 0531  2             RETURN;
;  405        U 0532  2             END;
;  406        U 0533  2
;  407        U 0534  2         [h_enable_chapte] :
;  408        U 0535  2             BEGIN
;  409        U 0536  2             IF .pagen [sct_typ] EQL sct_chapt ! Already in a Chapter
;  410        U 0537  2             THEN
;  411        U 0538  2                 RETURN;
;  412        U 0539  2             gca_chapt        = true;     ! Turn off chapter oriented-ness.
;  413        U 0540  2             npagen [sct_typ] = sct_chapt;  ! Normal page numbers
;  414        U 0541  2             pagen  [sct_typ] = sct_chapt;       ! Normal page numbers
;  415        U 0542  2             pagen  [sct_number] = .ecc [chap_offset,ecc$h_counter] + 1;
;  416        U 0543  2             npagen  [sct_number] = .ecc [chap_offset,ecc$h_counter] + 1;
;  417        U 0544  2             IF .gca_btc
;  418        U 0545  2             THEN
;  419        U 0546  2
;  420        U 0547  2 %IF FLIP %THEN
;  421        U 0548  2                 puttpg (pagen, flip$k_tocpag);
;  422        U 0549  2 %ELSE
;  423        U 0550  2                 puttpg (pagen, -1);
;  424        U 0551  2 %FI
;  425        U 0552  2
;  426        U 0553  2             RETURN;
;  427        U 0554  2             END;
;  428          0555  2 %FI
;  429          0556  2
;  430          0557  2         [h_appendix] :
;  431          0558  3             BEGIN
;  432          0559  3             BIND
;  433          0560  3                 style_block = ecc [append_offset, 0,0,0,0] : $ecc_block;
;  434          0561  3
;  435          0562  3             counter_minor_type = min_append_inf;
;  436          0563  3             caption_minor_type =
;  437          0564  4                 (IF  .style_block [ecc$v_unnumbered]
;  438          0565  4                  THEN
;  439          0566  4                      min_append_txt_u
;  440          0567  4                  ELSE
;  441          0568  3                      min_append_txt);
;  442          0569  3
;  443          0570  3 ! ** This code is needed for FLIP Phase 1 support.
;  444        U 0571  3 %IF FLIP %THEN
;  445        U 0572  3             IF  (.gca_op_dev EQL op_dev_flip)
;  446        U 0573  3             THEN
;  447        U 0574  3                 caption_minor_type = min_append;
;  448          0575  3 %FI
;  449          0576  3 ! **
;  450          0577  3
;  451          0578  3             set_ecc (.handler, style_block);
;  452          0579  2             END;
;  453          0580  2
;  454          0581  2         TES;
;  455          0582  2
;  456          0583  2     !
;  457          0584  2     ! Skip any spaces, tabs, or commas in the input.
;  458      0585  2     !
;  459      0586  2     skpsep (ira);
;  460      0587  2
;  461      0588  3     IF  (.handler EQL h_chapter) OR (.handler EQL h_appendix)
;  462      0589  2     THEN
;  463      0590  3         BEGIN
;  464      0591  3         !
;  465      0592  3         ! Loop over all remaining footnotes.
;  466      0593  3         !
;  467      0594  3         WHILE .fnct_count GTR 0 DO
;  468      0595  4             BEGIN
;  469      0596  4             !
;  470      0597  4             ! Get rid of as many footnotes as possible.
;  471      0598  4             !
;  472      0599  4             foobot ();
;  473      0600  4             !
;  474      0601  4             ! Finish the bottom of the page except for last one,
;  475      0602  4             ! which is taken care of by OUTCHA.
;  476      0603  4             !
;  477      0604  4             IF .fnct_count GTR 0
;  478      0605  4             THEN
;  479      0606  5                 BEGIN
;  480      0607  5                 botpag ();
;  481      0608  5                 !
;  482      0609  5                 ! Because not all footnotes were output, we have to
;  483      0610  5                 ! start a new page, and keep trying.
;  484      0611  5                 !
;  485      0612  5                 toppag ();
;  486      0613  4                 END;
;  487      0614  4
;  488      0615  3             END;
;  489      0616  3
;  490      0617  3         outcha (
;  491      0618  3         .lines_before,          .lines_after,           .test_page_amount,
;  492      0619  3         .counter_major_type,    .counter_minor_type,
;  493      0620  3         .counter_value,         .counter_display_code,  .counter_spaces_after,
;  494      0621  3         .counter_pre_string_length,     .counter_pre_string_ptr,
;  495      0622  3         .counter_post_string_length,    .counter_post_string_ptr,
;  496      0623  3         .caption_major_type,    .caption_minor_type,    .caption_case,
;  497      0624  3         .caption_is_centered,   .caption_is_flush_right,.caption_is_run_in,
;  498      0625  3         .caption_is_bold,       .caption_is_underlined,.put_into_mem_file,
;  499      0626  3         .autosubtitle,          .brn_open,              .break_before_caption,
;  500      0627  3         .lines_between,         .new_page,              .startodd,
;  501      0628  3         .tocpage
;  502      0629  3         );
;  503      0630  3         END
;  504      0631  2     ELSE
;  505      0632  3         BEGIN
;  506      0633  3         outhdr (
;  507      0634  3         .lines_before,          .lines_after,           .test_page_amount,
;  508      0635  3         .counter_major_type,    .counter_minor_type,
;  509      0636  3         .counter_value,         .counter_display_code,  .counter_spaces_after,
;  510      0637  3         .counter_pre_string_length,     .counter_pre_string_ptr,
;  511      0638  3         .counter_post_string_length,    .counter_post_string_ptr,
;  512      0639  3         .caption_major_type,    .caption_minor_type,    .caption_case,
;  513      0640  3         .caption_is_centered,   .caption_is_flush_right,.caption_is_run_in,
;  514      0641  3         .caption_is_bold,       .caption_is_underlined,.put_into_mem_file,
;  515          0642 3          .autosubtitle,          .brn_open,              .break_before_caption,
;  516          0643 3          .lines_between,         .new_page,              .startodd,
;  517          0644 3          .tocpage
;  518          0645 3          );
;  519          0646 2          END;
;  520          0647 2
;  521          0648 2 !+
;  522          0649 2 ! Post-processing after the header has been generated.
;  523          0650 2 !-
;  524          0651 2      SELECT .handler OF
;  525          0652 2          SET
;  526          0653 2
;  527          0654 2          [h_header_level] :
;  528          0655 3              BEGIN
;  529          0656 3              !
;  530          0657 3              ! Turn fill on if AUTOJUST, else leave it the way it was.
;  531          0658 3              !
;  532          0659 3              sca_fill = (.gca_autojust OR .sca_fill);
;  533          0660 3              !
;  534          0661 3              ! Turn justify on if AUTOJUST, else leave it the way it was.
;  535          0662 3              !
;  536          0663 3              sca_justify = (.gca_autojust OR .sca_justify);
;  537          0664 3              sca_crock   =  .gca_autojust;
;  538          0665 3              END;
;  539          0666 2
;  540        U 0667 2 %IF DSRPLUS %THEN
;  541        U 0668 2          [h_header_exampl] : 0;
;  542        U 0669 2          [h_header_figure] : 0;
;  543        U 0670 2          [h_header_table]  : 0;
;  544        U 0671 2          [h_no_chapter]    : 0;
;  545          0672 2 %FI
;  546          0673 2
;  547          0674 2          [h_appendix] : 0;
;  548          0675 2          [h_chapter]  : 0;
;  549          0676 2
;  550          0677 2          TES;
;  551          0678 2
;  552          0679 1      END;                        ! End of HEADER


                                                                .TITLE  HEADER HEADER -- handle headers (titles) for ex
;                                                                                    amples,
                                                                .IDENT  \V04-000\

                                                                .PSECT  $OWN$,NOEXE,2

                                                  00000 LINES_BEFORE:
                                                                .BLKB   4
                                                  00004 LINES_AFTER:
                                                                .BLKB   4
                                                  00008 TEST_PAGE_AMOUNT:
                                                                .BLKB   4
                                                  0000C COUNTER_MAJOR_TYPE:
                                                                .BLKB   4
                                                  00010 COUNTER_MINOR_TYPE:
                                                                .BLKB   4
                                                  00014 COUNTER_VALUE:
                                                          .BLKB   4
                                  00018 COUNTER_DISPLAY_CODE:
                                                          .BLKB   4
                                  0001C COUNTER_SPACES_AFTER:
                                                          .BLKB   4
                                  00020 COUNTER_PRE_STRING_LENGTH:
                                                          .BLKB   4
                                  00024 COUNTER_PRE_STRING_PTR:
                                                          .BLKB   4
                                  00028 COUNTER_POST_STRING_LENGTH:
                                                          .BLKB   4
                                  0002C COUNTER_POST_STRING_PTR:
                                                          .BLKB   4
                                  00030 CAPTION_MAJOR_TYPE:
                                                          .BLKB   4
                                  00034 CAPTION_MINOR_TYPE:
                                                          .BLKB   4
                                  00038 CAPTION_CASE:
                                                          .BLKB   4
                                  0003C CAPTION_IS_CENTERED:
                                                          .BLKB   4
                                  00040 CAPTION_IS_FLUSH_RIGHT:
                                                          .BLKB   4
                                  00044 CAPTION_IS_RUN_IN:
                                                          .BLKB   4
                                  00048 CAPTION_IS_BOLD:
                                                          .BLKB   4
                                  0004C CAPTION_IS_UNDERLINED:
                                                          .BLKB   4
                                  00050 PUT_INTO_MEM_FILE:
                                                          .BLKB   4
                                  00054 AUTOSUBTITLE:
                                                          .BLKB   4
                                  00058 BRN_OPEN:
                                                          .BLKB   4
                                  0005C BREAK_BEFORE_CAPTION:
                                                          .BLKB   4
                                  00060 LINES_BETWEEN:
                                                          .BLKB   4
                                  00064 NEW_PAGE:
                                                          .BLKB   4
                                  00068 STARTODD:
                                                          .BLKB   4
                                  0006C TOCPAGE:.BLKB     4

                                                          .EXTRN  RNFINM, ECC, FNCT
                                                          .EXTRN  GCA, HCT, HLC, HLLIST
                                                          .EXTRN  IRA, NUMPRM, PDT
                                                          .EXTRN  SCA, ERMA, OUTCHA
                                                          .EXTRN  OUTHDR, BOTPAG, FOOBOT
                                                          .EXTRN  TOPPAG, SKPSEP

                                                          .PSECT  $CODE$,NOWRT,2

                             03FC 00000                   .ENTRY  HEADER, Save R2,R3,R4,R5,R6,R7,R8,R9          ; 0301
           59 00000000G  EF   9E 00002                    MOVAB   FNCT, R9                                      ;
           58 00000000G  EF   9E 00009                    MOVAB   SCA+104, R8                                   ;
```

```
                             57 00000000V  EF  9E 00010           MOVAB   SET_ECC, R7                                 ;
                             56 00000000G  EF  9E 00017           MOVAB   ECC+108, R6                                 ;
                             55 00000000G  EF  9E 0001E           MOVAB   NUMPRM+4, R5                                ;
                             54 00000000G  EF  9E 00025           MOVAB   HLLIST+4, R4                                ;
                             53 00000000'  EF  9E 0002C           MOVAB   COUNTER_MINOR_TYPE, R3                      ;
                      FC     A3            02  D0 00033           MOVL    #2, COUNTER_MAJOR_TYPE                      ; 0329
                      20     A3            02  D0 00037           MOVL    #2, CAPTION_MAJOR_TYPE                      ; 0330
                      40     A3            01  D0 0003B           MOVL    #1, PUT_INTO_MEM_FILE                       ; 0331
     48   A3 00000000G  EF                 01  00 EF 0003F        EXTZV   #0, #1, GCA+124, BRN_OPEN                   ; 0332
                             52       04   AC  D0 00049           MOVL    HANDLER, R2                                 ; 0334
                00000061     8F            52  D1 0004D           CMPL    R2, #97                                     ; 0337
                             09            13  00054              BEQL    1$                                          ;
                000000B8     8F            52  D1 00056           CMPL    R2, #184                                    ;
                             2F            12  0005D              BNEQ    5$                                          ;
                                      04   A5  D5 0005F  1$:      TSTL    NUMPRM+8                                    ; 0345
                             05            13  00062              BEQL    2$                                          ;
                             65            64  C0 00064           ADDL2   HLLIST+4, NUMPRM+4                          ; 0350
                             08            11  00067              BRB     3$                                          ;
                                      08   A5  D5 00069  2$:      TSTL    NUMPRM+12                                   ; 0353
                             03            12  0006C              BNEQ    3$                                          ;
                             65            64  D0 0006E           MOVL    HLLIST+4, NUMPRM+4                          ; 0358
                             50            65  D0 00071  3$:      MOVL    NUMPRM+4, R0                                ; 0363
                             06            15  00074              BLEQ    4$                                          ;
                      FC     A4            50  D1 00076           CMPL    R0, HLLIST                                  ; 0364
                             12            15  0007A              BLEQ    5$                                          ;
                             7E            D4  0007C      4$:     CLRL    -(SP)                                       ; 0370
                          00000000G        8F  DD 0007E           PUSHL   #RNFINM                                     ;
                00000000G    EF            02  FB 00084           CALLS   #2, ERMA                                    ;
                             65            64  D0 0008B           MOVL    HLLIST+4, NUMPRM+4                          ; 0374
                00000061     8F            52  D1 0008E  5$:      CMPL    R2, #97                                     ; 0379
                             13            12  00095              BNEQ    8$                                          ;
                             50            65  D0 00097           MOVL    NUMPRM+4, R0                                ; 0384
                                    6440   D6  0009A              INCL    HLLIST+4[R0]                                ;
                             51       FC   A4  D0 0009D           MOVL    HLLIST, R1                                  ; 0389
                             03            11  000A1              BRB     7$                                          ;
                                    6440   D4  000A3      6$:     CLRL    HLLIST+4[I]                                 ; 0390
          F9                 50            51  F3 000A6   7$:     AOBLEQ  R1, I, 6$                                   ;
                00000061     8F            52  D1 000AA   8$:     CMPL    R2, #97                                     ; 0394
                             09            13  000B1              BEQL    9$                                          ;
                000000B8     8F            52  D1 000B3           CMPL    R2, #184                                    ;
                             03            12  000BA              BNEQ    10$                                         ;
                             64            65  D0 000BC   9$:     MOVL    NUMPRM+4, HLLIST+4                          ; 0398
                000000B8     8F            52  D1 000BF  10$:     CMPL    R2, #184                                    ; 0400
                             01            12  000C6              BNEQ    11$                                         ;
                                           04  000C8              RET                                                 ;
                00000061     8F            52  D1 000C9  11$:     CMPL    R2, #97                                     ; 0402
                             1F            12  000D0              BNEQ    14$                                         ;
          50                 64            24  C5 000D2           MULL3   #36, HLLIST+4, R0                           ; 0405
                                           63  D4 000D6           CLRL    COUNTER_MINOR_TYPE                          ; 0408
          05               6640            02  E1 000D8           BBC     #2, ECC+108[R0], 12$                        ; 0410
                             51            06  D0 000DD           MOVL    #6, R1                                      ;
                             03            11  000E0              BRB     13$                                         ;
                             51            02  D0 000E2  12$:     MOVL    #2, R1                                      ;
                      24     A3            51  D0 000E5  13$:     MOVL    R1, CAPTION_MINOR_TYPE                      ;
                                    6640   9F  000E9              PUSHAB  ECC+108[R0]                                 ; 0416
                                           52  DD 000EC           PUSHL   R2                                          ;
                             67            02  FB 000EE           CALLS   #2, SET_ECC                                 ;
```

```
                 0D              52  D1  000F1  14$:    CMPL    R2, #13                                   ; 0469
                                 1E  12  000F4          BNEQ    17$                                       ;
                 63              10  D0  000F6          MOVL    #16, COUNTER_MINOR_TYPE                   ; 0474
    05     00FC  C6              02  E1  000F9          BBC     #2, STYLE_BLOCK, 15$                      ; 0476
                 50              12  D0  000FF          MOVL    #18, R0                                   ;
                                 03  11  00102          BRB     16$                                       ;
                 50              11  D0  00104  15$:    MOVL    #17, R0                                   ;
           24    A3              50  D0  00107  16$:    MOVL    R0, CAPTION_MINOR_TYPE                    ;
                         00FC    C6  9F  0010B          PUSHAB  STYLE_BLOCK                               ; 0490
                                 52  DD  0010F          PUSHL   R2                                        ;
                 67              02  FB  00111          CALLS   #2, SET_ECC                               ;
                 01              52  D1  00114  17$:    CMPL    R2, #1                                    ; 0557
                                 1E  12  00117          BNEQ    20$                                       ;
                 63              13  D0  00119          MOVL    #19, COUNTER_MINOR_TYPE                   ; 0562
    05     0120  C6              02  E1  0011C          BBC     #2, STYLE_BLOCK, 18$                      ; 0564
                 50              15  D0  00122          MOVL    #21, R0                                   ;
                                 03  11  00125          BRB     19$                                       ;
                 50              14  D0  00127  18$:    MOVL    #20, R0                                   ;
           24    A3              50  D0  0012A  19$:    MOVL    R0, CAPTION_MINOR_TYPE                    ;
                         0120    C6  9F  0012E          PUSHAB  STYLE_BLOCK                               ; 0578
                                 52  DD  00132          PUSHL   R2                                        ;
                 67              02  FB  00134          CALLS   #2, SET_ECC                               ;
                    00000000G    EF  9F  00137  20$:    PUSHAB  IRA                                       ; 0586
      00000000G  EF              01  FB  0013D          CALLS   #1, SKPSEP                                ;
                 0D              52  D1  00144          CMPL    R2, #13                                   ; 0588
                                 05  13  00147          BEQL    21$                                       ;
                 01              52  D1  00149          CMPL    R2, #1                                    ;
                                 5F  12  0014C          BNEQ    23$                                       ;
                                 69  D5  0014E  21$:    TSTL    FNCT                                      ; 0594
                                 1B  15  00150          BLEQ    22$                                       ;
      00000000G  EF              00  FB  00152          CALLS   #0, FOOBOT                                ; 0599
                                 69  D5  00159          TSTL    FNCT                                      ; 0604
                                 F1  15  0015B          BLEQ    21$                                       ;
      00000000G  EF              00  FB  0015D          CALLS   #0, BOTPAG                                ; 0607
      00000000G  EF              00  FB  00164          CALLS   #0, TOPPAG                                ; 0612
                                 E1  11  0016B          BRB     21$                                       ; 0594
                 7E          58  A3  7D  0016D  22$:    MOVQ    STARTODD, -(SP)                           ; 0627
                 7E          50  A3  7D  00171          MOVQ    LINES_BETWEEN, -(SP)                      ;
                 7E          48  A3  7D  00175          MOVQ    BRN_OPEN, -(SP)                           ; 0626
                 7E          40  A3  7D  00179          MOVQ    PUT_INTO_MEM_FILE, -(SP)                  ; 0625
                 7E          38  A3  7D  0017D          MOVQ    CAPTION_IS_BOLD, -(SP)                    ;
                 7E          30  A3  7D  00181          MOVQ    CAPTION_IS_FLUSH_RIGHT, -(SP)             ; 0624
                 7E          28  A3  7D  00185          MOVQ    CAPTION_CASE, -(SP)                       ; 0623
                 7E          20  A3  7D  00189          MOVQ    CAPTION_MAJOR_TYPE, -(SP)                 ;
                 7E          18  A3  7D  0018D          MOVQ    COUNTER_POST_STRING_LENGTH, -(SP)         ; 0622
                 7E          10  A3  7D  00191          MOVQ    COUNTER_PRE_STRING_LENGTH, -(SP)          ; 0621
                 7E          08  A3  7D  00195          MOVQ    COUNTER_DISPLAY_CODE, -(SP)               ; 0620
                 7E              63  7D  00199          MOVQ    COUNTER_MINOR_TYPE, -(SP)                 ; 0619
                 7E          F8  A3  7D  0019C          MOVQ    TEST_PAGE_AMOUNT, -(SP)                   ; 0618
                 7E          F0  A3  7D  001A0          MOVQ    LINES_BEFORE, -(SP)                       ;
      00000000G  EF              1C  FB  001A4          CALLS   #28, OUTCHA                               ;
                                 3E  11  001AB          BRB     24$                                       ; 0588
                 7E          58  A3  7D  001AD  23$:    MOVQ    STARTODD, -(SP)                           ; 0643
                 7E          50  A3  7D  001B1          MOVQ    LINES_BETWEEN, -(SP)                      ;
                 7E          48  A3  7D  001B5          MOVQ    BRN_OPEN, -(SP)                           ; 0642
                 7E          40  A3  7D  001B9          MOVQ    PUT_INTO_MEM_FILE, -(SP)                  ; 0641
                 7E          38  A3  7D  001BD          MOVQ    CAPTION_IS_BOLD, -(SP)                    ;
```

```
                            7E          30    A3  7D 001C1          MOVQ     CAPTION_IS_FLUSH_RIGHT, -(SP)          : 0640
                            7E          28    A3  7D 001C5          MOVQ     CAPTION_CASE, -(SP)                    : 0639
                            7E          20    A3  7D 001C9          MOVQ     CAPTION_MAJOR_TYPE, -(SP)              :
                            7E          18    A3  7D 001CD          MOVQ     COUNTER_POST_STRING_LENGTH, -(SP)      : 0638
                            7E          10    A3  7D 001D1          MOVQ     COUNTER_PRE_STRING_LENGTH, -(SP)       : 0637
                            7E          08    A3  7D 001D5          MOVQ     COUNTER_DISPLAY_CODE, -(SP)            : 0636
                            7E                63  7D 001D9          MOVQ     COUNTER_MINOR_TYPE, -(SP)              : 0635
                            7E          F8    A3  7D 001DC          MOVQ     TEST_PAGE_AMOUNT, -(SP)                : 0634
                            7E          F0    A3  7D 001E0          MOVQ     LINES_BEFORE, -(SP)                    :
                 00000000G  EF                1C  FB 001E4          CALLS    #28, OUTHDR                            :
                 00000061   8F                52  D1 001EB 24$:     CMPL     R2, #97                                : 0654
                                              13  12 001F2          BNEQ     25$                                    :
                         50 00000000G         FF  D0 001F4          MOVL     @GCA+16, R0                            : 0659
                       00   B8                50  C8 001FB          BISL2    R0, @SCA+104                           :
                       FC   B8                50  C8 001FF          BISL2    R0, @SCA+100                           : 0663
                       08   B8                50  D0 00203          MOVL     R0, @SCA+112                           : 0664
                                                  04 00207 25$:     RET                                             : 0679

; Routine Size:  520 bytes,    Routine Base:  $CODE$ + 0000

;  553        0680  1
;   555         0681   1 %SBTTL 'SET_ECC -- set up OUTHDR formals from the ECC area'
;   556         0682   1 ROUTINE set_ecc (handler, style_block) : NOVALUE =
;   557         0683   1
;   558         0684   1 !++
;   559         0685   1 ! FUNCTIONAL DESCRIPTION:
;   560         0686   1 !
;   561         0687   1 !       SET_ECC sets the values of the formal parameters in a call to OUTHDR:
;   562         0688   1 !       the ones that are stored in the ECC (Entity Counter/Caption) area.
;   563         0689   1 !
;   564         0690   1 ! FORMAL PARAMETERS:
;   565         0691   1 !
;   566         0692   1 !       handler -         Indicates what command is being processed.
;   567         0693   1 !
;   568         0694   1 !       style_block -     The address of that segment of the ECC blockvector
;   569         0695   1 !                         that will be used to update the OUTHDR formals.
;   570         0696   1 !
;   571         0697   1 ! IMPLICIT INPUTS:         None
;   572         0698   1 !
;   573         0699   1 ! IMPLICIT OUTPUTS:
;   574         0700   1 !
;   575         0701   1 !       The following module-level OWN variables, used as OUTHDR formals,
;   576         0702   1 !       are updated:
;   577         0703   1 !
;   578         0704   1 !       lines_before,             lines_after,              test_page_amount,
;   579         0705   1 !       counter_major_type,       counter_minor_type,
;   580         0706   1 !       counter_value,            counter_display_code,     counter_spaces_after,
;   581         0707   1 !       counter_pre_string_length,    counter_pre_string_ptr,
;   582         0708   1 !       counter_post_string_length,   counter_post_string_ptr,
;   583         0709   1 !       caption_major_type,       caption_minor_type,       caption_case,
;   584         0710   1 !       caption_is_centered,      caption_is_flush_right, caption_is_run_in,
;   585         0711   1 !       caption_is_bold,          caption_is_underlined,  put_into_mem_file,
;   586         0712   1 !       autosubtitle,             brn_open,                 break_before_caption,
;   587         0713   1 !       lines_between,            new_page,                 startodd,
;   588         0714   1 !       tocpage
;   589         0715   1 !
;   590         0716   1 ! ROUTINE VALUE:
;   591         0717   1 ! COMPLETION CODES:        None
;   592         0718   1 !
;   593         0719   1 ! SIDE EFFECTS:            None
;   594         0720   1 !--
;   595         0721   1
;   596         0722   2     BEGIN
;   597         0723   2     BIND
;   598         0724   2         sb = .style_block : $ecc_block;
;   599         0725   2
;   600         0726   2     !
;   601         0727   2     ! Increment the entity counter.
;   602         0728   2     !
;   603         0729   2     sb [ecc$h_counter] = .sb [ecc$h_counter] + 1;
;   604         0730   2     lines_before =
;   605         0731   4         (IF  (.sb [ecc$h_before] GTR 0) AND (NOT .sca_sect_empty)
;   606         0732   3         THEN
;   607         0733   4             (MAX (1, .sb [ecc$h_before] - (.sca_spacing - 1)))
;   608         0734   2         ELSE 0);
;   609         0735   2
;   610         0736   2     lines_between = .sb [ecc$h_between];
;   611         0737   2     lines_after =
;  612        0738  3          (IF  .sb [ecc$h_after] GTR 0
;  613        0739  3           THEN
;  614        0740  4              (MAX (1, .sb [ecc$h_after] - (.sca_spacing - 1)))
;  615        0741  2           ELSE 0);
;  616        0742  2
;  617        0743  3       IF  (.handler EQL h_chapter) OR (.handler EQL h_appendix)
;  618        0744  2       THEN
;  619        0745  3           BEGIN
;  620        0746  3           lines_before = .sb [ecc$h_before];
;  621        0747  3           lines_after  = .sb [ecc$h_after];
;  622        0748  2           END;
;  623        0749  2
;  624        0750  2       test_page_amount            = .sb [ecc$h_testpage];
;  625        0751  2       counter_value               = .sb [ecc$h_counter];
;  626        0752  2       counter_display_code        = .sb [ecc$h_display_desc];
;  627        0753  2       counter_spaces_after        = .sb [ecc$h_spaces];
;  628        0754  2       counter_pre_string_length   = .sb [ecc$h_pre_len];
;  629        0755  2       counter_pre_string_ptr      = .sb [ecc$a_pre_ptr];
;  630        0756  2       counter_post_string_length  = .sb [ecc$h_post_len];
;  631        0757  2       counter_post_string_ptr     = .sb [ecc$a_post_ptr];
;  632        0758  2       caption_case =
;  633        0759  3          (CASE .sb [ecc$h_case]
;  634        0760  3           FROM ecc$k_leavecase TO ecc$k_allcap OF
;  635        0761  3              SET
;  636        0762  3              [ecc$k_leavecase] : leave_case;
;  637        0763  3              [ecc$k_firstcap]  : first_caps;
;  638        0764  3              [ecc$k_allcap]    : force_upper;
;  639        0765  2              TES);
;  640        0766  2
;  641        0767  2       caption_is_centered           = (.sb [ecc$h_position] eql ecc$k_center);
;  642        0768  2       caption_is_flush_right        = (.sb [ecc$h_position] eql ecc$k_right);
;  643        0769  2       break_before_caption          = .sb[ecc$v_break];
;  644        0770  2       tocpage                       = .sb [ecc$v_tocpage];
;  645        0771  2       startodd                      = .sb [ecc$v_startodd];
;  646        0772  2       new_page                      = .sb [ecc$v_page];
;  647        0773  2       caption_is_run_in             = .sb [ecc$h_runin];
;  648        0774  2       caption_is_bold               = .sb [ecc$v_bold];
;  649        0775  2       caption_is_underlined         = .sb [ecc$v_underline];
;  650        0776  2       autosubtitle =
;  651        0777  3          (IF  .handler EQL h_header_level
;  652        0778  3           THEN
;  653        0779  4              (.gca_autosubt GEQ .hllist [cl_index] AND .hct_subtitle)
;  654        0780  3           ELSE
;  655        0781  2              FALSE);
;  656        0782  2
;  657        0783  1       END;                                 ! End of SET_ECC



                                        003C 00000 SET_ECC:.WORD    Save R2,R3,R4,R5                            ; 0682
                      55 00000000G  EF    9E 00002           MOVAB    SCA+124, R5                                 ;
                      54 00000000'  EF    9E 00009           MOVAB    LINES_BEFORE, R4                            ;
                      50         08  AC    D0 00010           MOVL     STYLE_BLOCK, R0                             ; 0724
      51      0C    A0      20             18    EE 00014           EXTV     #24, #32, 12(R0), R1                        ; 0729
                                      51    D6 0001A           INCL     R1                                          ;
```

```
  0C  A0          20          18          51 F0 0001C         INSV    R1, #24, #32, 12(R0)
      53      04  A0          10          18 EE 00022         EXTV    #24, #16, 4(R0), R3                       ; 0731
                                          12 15 00028         BLEQ    1$
                              0E      38  A5 E8 0002A         BLBS    SCA+180, 1$
                  51          53      00  B5 C3 0002E         SUBL3   @SCA+124, R3, R1                          ; 0733
                                          51 D6 00033         INCL    R1
                                          07 14 00035         BGTR    2$
                  51                      01 D0 00037         MOVL    #1, R1
                                          02 11 0003A         BRB     2$
                                          51 D4 0003C 1$:     CLRL    R1                                        ; 0731
                              64          51 D0 0003E 2$:     MOVL    R1, LINES_BEFORE
                          60  A4      09  A0 32 00041         CVTWL   9(R0), LINES_BETWEEN                      ; 0736
                              52      05  A0 32 00046         CVTWL   5(R0), R2                                 ; 0738
                                          0E 15 0004A         BLEQ    3$
                  51          52      00  B5 C3 0004C         SUBL3   @SCA+124, R2, R1                          ; 0740
                                          51 D6 00051         INCL    R1
                                          07 14 00053         BGTR    4$
                  51                      01 D0 00055         MOVL    #1, R1
                                          02 11 00058         BRB     4$
                                          51 D4 0005A 3$:     CLRL    R1                                        ; 0738
                          04  A4          51 D0 0005C 4$:     MOVL    R1, LINES_AFTER
                              0D      04  AC D1 00060         CMPL    HANDLER, #13                              ; 0743
                                          06 13 00064         BEQL    5$
                              01      04  AC D1 00066         CMPL    HANDLER, #1
                                          07 12 0006A         BNEQ    6$
                              64          53 D0 0006C 5$:     MOVL    R3, LINES_BEFORE                          ; 0746
                          04  A4          52 D0 0006F         MOVL    R2, LINES_AFTER                           ; 0747
                          08  A4      0D  A0 32 00073 6$:     CVTWL   13(R0), TEST_PAGE_AMOUNT                  ; 0750
  14  A4      0C  A0          20          18 EE 00078         EXTV    #24, #32, 12(R0), COUNTER_VALUE           ; 0751
  18  A4      10  A0          10          18 EE 0007F         EXTV    #24, #16, 16(R0), COUNTER_DISPLAY_CODE    ; 0752
  1C  A4      08  A0          10          18 EE 00086         EXTV    #24, #16, 8(R0), COUNTER_SPACES_AFTER     ; 0753
                          20  A4      15  A0 32 0008D         CVTWL   21(R0), COUNTER_PRE_STRING_LENGTH         ; 0754
  24  A4      14  A0          20          18 EF 00092         EXTZV   #24, #32, 20(R0), COUNTER_PRE_STRING_PTR  ; 0755
  28  A4      18  A0          10          18 EE 00099         EXTV    #24, #16, 24(R0), -                       ; 0756
                                                                      COUNTER_POST_STRING_LENGTH
  2C  A4      1C  A0          20          08 EF 000A0         EXTZV   #8, #32, 28(R0), COUNTER_POST_STRING_PTR  ; 0757
                  02          00      03  A0 8F 000A7         CASEB   3(R0), #0, #2                             ; 0759
                000F        000A    0006        000AC 7$:     .WORD   8$-7$,-
                                                                      9$-7$,-
                                                                      10$-7$
                                          51 D4 000B2 8$:     CLRL    R1
                                          08 11 000B4         BRB     11$
                              51          02 D0 000B6 9$:     MOVL    #2, R1
                                          03 11 000B9         BRB     11$
                              51          01 D0 000BB 10$:    MOVL    #1, R1
                          38  A4          51 D0 000BE 11$:    MOVL    R1, CAPTION_CASE
                                          51 D4 000C2         CLRL    R1                                        ; 0767
                              02      04  A0 91 000C4         CMPB    4(R0), #2
                                          02 12 000C8         BNEQ    12$
                                          51 D6 000CA         INCL    R1
                          3C  A4          51 D0 000CC 12$:    MOVL    R1, CAPTION_IS_CENTERED
                                          51 D4 000D0         CLRL    R1                                        ; 0768
                              01      04  A0 91 000D2         CMPB    4(R0), #1
                                          02 12 000D6         BNEQ    13$
                                          51 D6 000D8         INCL    R1
                          40  A4          51 D0 000DA 13$:    MOVL    R1, CAPTION_IS_FLUSH_RIGHT
  5C  A4          60          01          03 EF 000DE         EXTZV   #3, #1, (R0), BREAK_BEFORE_CAPTION        ; 0769
```

```
      6C   A4             60            01            04  EF 000E4         EXTZV    #4, #1, (R0), TOCPAGE                        ; 0770
      68   A4             60            01            06  EF 000EA         EXTZV    #6, #1, (R0), STARTODD                       ; 0771
      64   A4             60            01            05  EF 000F0         EXTZV    #5, #1, (R0), NEW_PAGE                       ; 0772
                                   44   A4      02    A0  98 000F6         CVTBL    2(R0), CAPTION_IS_RUN_IN                     ; 0773
      48   A4             60            01            00  EF 000FB         EXTZV    #0, #1, (R0), CAPTION_IS_BOLD                ; 0774
      4C   A4             60            01            01  EF 00101         EXTZV    #1, #1, (R0), CAPTION_IS_UNDERLINED          ; 0775
                            00000061    8F      04    AC  D1 00107         CMPL     HANDLER, #97                                 ; 0777
                                                      1D  12 0010F         BNEQ     15$                                          ;
                                                      50  D4 00111         CLRL     R0                                           ; 0779
                            00000000G   EF 00000000G  FF  D1 00113         CMPL     @GCA+8, HLLIST+4                             ;
                                                      02  19 0011E         BLSS     14$                                          ;
                                                      50  D6 00120         INCL     R0                                           ;
                                        51 00000000G  FF  D2 00122 14$:    MCOML    @HCT+24, R1                                  ;
                                        50            51  CA 00129         BICL2    R1, R0                                       ;
                                                      02  11 0012C         BRB      16$                                          ;
                                                      50  D4 0012E 15$:    CLRL     R0                                           ; 0777
                                   54   A4            50  D0 00130 16$:    MOVL     R0, AUTOSUBTITLE                             ;
                                                          04 00134         RET                                                   ; 0783

; Routine Size:  309 bytes,    Routine Base:  $CODE$ + 0208


;  658          0784  1
;  659          0785  1 END                                        ! End of module
;  660          0786  0 ELUDOM





;                                       PSECT SUMMARY
;
;       Name                     Bytes                          Attributes
;
;  $OWN$                                 112  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                                829  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)




;                                Library Statistics
;
;                                             -------- Symbols --------        Pages        Processing
;       File                                  Total     Loaded    Percent      Mapped       Time
;
;  _$255$DUA28:[SYSLIB]XPORT.L32;1              590          0          0        252          00:00.2
;  _$255$DUA28:[RUNOFF.SRC]DSRLIB.L32;1        1248         84          6         86          00:00.2




;                                        COMMAND QUALIFIERS
;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:HEADER/OBJ=OBJ$:HEADER MSRC$:HEADER/UPDATE=(ENH$:HEADER)

; Size:          829 code + 112 data bytes
; Run Time:         00:15.2
; Elapsed Time:     00:32.6
; Lines/CPU Min:     3112
; Lexemes/CPU-Min: 16510
; Memory Used:  148 pages
; Compilation Complete
```

```
IFI
V04
```

0342 AH-BT13A-SE
VAX/VMS V4.0

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